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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,316	02/08/2002	Junichi Karasawa	81751.0029	9698

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EXAMINER	
LOKE, STEVEN HO YIN	
ART UNIT	PAPER NUMBER

2811

DATE MAILED: 08/11/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

9/11

Office Action Summary	Application No.	Applicant(s)
	10/072,316	KARASAWA ET AL.
	Examiner Steven Loke	Art Unit 2811

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 19 May 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1-15 is/are allowed.
- 6) Claim(s) 16-18 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____ .
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) <input type="checkbox"/> Other: _____

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 16-18 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Madan.

In regards to claim 16, Madan shows all the elements of the claimed invention in figs. 5a and 6. It is a semiconductor device using as a memory cell a flip-flop including a first load transistor (PMOS in Quadrant 1), a first driver transistor (NMOS in Quadrant 3), a second load transistor (PMOS in Quadrant 2) and a second driver transistor (NMOS in Quadrant 4), wherein the first and second load transistors in one memory cell are disposed symmetrically about a straight line extending in a gate width direction between the drain regions ([608] and the dark shaded area adjacent to [608]) of the first and second load transistors, and wherein each of the drain regions of the first and second load transistors includes a protruded active region (the dark shaded area located above the region [608]) protruding in the gate width direction beyond an end of a channel region (a border of the dark shaded area directly under the gate electrodes [632, 634]).

In regards to claim 17, Madan further discloses a memory system (fig. 5a) provided with the semiconductor device of claim 16.

In regards to claim 18, Madan further discloses an electronic apparatus (col. 6, lines 29-32) provided with the semiconductor device of claim 16.

3. Applicant's arguments filed 5/19/03 have been fully considered but they are not persuasive.

It is urged, in page 10 of the remarks, that the Madan reference fails to teach or suggest that "each of the drain regions of the first and second load transistors includes a protruded active region protruding in the gate width direction beyond an end of a channel region". However, as shown in fig. 6, the protruded active region (the dark shaded area located above the region [608]) of each of the drain regions of the first and second load transistors is protruding in the gate width direction beyond an end of the channel region (a border of the dark shaded area directly under the gate electrodes [632, 634]). Therefore, Maden does disclose all the claimed subject matters of claims 16-18.

4. Claims 1-15 are allowed.

5. The following is a statement of reasons for the indication of allowable subject matter: The major difference in the claims not found in the prior art of record is the first drain-gate wiring layer and the second drain-gate wiring layer are located in different layers, respectively, and a first protruded active region is provided in a manner to protrude from an end portion of the first active region.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (703) 308-4920. The examiner can normally be reached on 7:50 am to 5:20 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

sl
August 8, 2003

Steven Loke
Primary Examiner
